

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) ~~Acetabular~~ An acetabular implant, ~~of the type~~ comprising:

a screw ~~type~~ cup ~~which receives~~ configured to receive an articular insert; ~~the cup having, at periphery, and in particular in the tropical/equatorial zone (2) thereof,~~

screwing means which at a periphery or in a tropical/equatorial zone (2) of the cup, said screwing means are intended to be introduced into [[the]] bone material of the acetabulum during [[the]] a screwing action; ~~the cup carrying and~~

a coating carried by the cup, which coating facilitates osteointegration, ~~such as, in particular, or a selective calcium hydroxyapatite coating, characterized in that~~

wherein the coating is ~~of the thick type~~ on [[the]] convex portions (1, 10) of [[the]] an outer surface of the cup, including in [[the]] zones or troughs or recesses of threads (10) that are left free in the screwing means, ~~whilst that~~ and the coating has a lesser thickness, or is even absent, on [[the]] screw reliefs or threads (11).

2. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein a thickness of the thick coating ~~of the thick type~~ is from 100 to 200 micrometres.

3. (currently amended) ~~Implant~~ The implant according to claim 2, ~~characterized in that~~ wherein the coating thickness is ~~in the~~ of an order of 150 ± 35 micrometres.

4. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein the screw reliefs have a coating ~~in the~~ of an order of 50 ± 30 micrometres.

5. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein the screw reliefs (11) do not have any coating and have a rough surface.

6. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein the screwing means is arranged in order to traumatize as little as possible ~~[[the]]~~ an acetabular bone site, in which the threads are introduced, and in order to have a maximum convex surface-area, ~~that is to say,~~ by having troughs (10) between ~~[[the]]~~ sides of threads (11) in order to facilitate, ~~in this region,~~ osteointegration by contact osteogenesis and remodelling under stress, the screw ~~relief~~ reliefs being arranged in order to apply a self-tapping cutting

effect during the screwing action and an effect involving compression of [[the]] sponge-like bone.

7. (currently amended) ~~Implant~~ The implant according to claim 6, ~~characterized in that,~~ wherein in a thread pitch, [[the]] a proportion of [[the]] thread width, in [[the]] a region of the trough, relative to the pitch, is from 0.2 to 0.5.

8. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein a cross-section of the threads is asymmetrical in a diametral plane, with a smaller angle ~~in the~~ of an order of from 5 to 10° at [[the]] a polar side (7) of the thread, and a greater angle ~~in the~~ of an order of from 15 to 20° at [[the]] an equatorial side (8), in order to bring about a good compression effect when the bone which receives the threading is placed under stress.

9. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein crests of threads (11) are relieved, with a leading edge which is radially higher than [[the]] a remainder of the crest, whose radial height decreases towards [[the]] a rear of the thread.

10. (currently amended) ~~Implant~~ The implant according to claim [[1]] 9, ~~characterized in that~~ wherein the leading edge

is itself inclined, by being formed by a milling pass which is strongly inclined in a biased manner relative to ~~[[the]]~~ an inclination of the threading itself, the leading edge (12) ~~itself~~ being orientated aggressively forwards relative to the radial.

11. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein a threading pitch is regular in order to bring about a single bone groove, in which successive threads are introduced during the screwing ~~rotation~~ action.

12. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein the screwing means has a threading formed by zones of threads (5) which are separated by inclined grooves (6) defining ~~[[the]]~~ cutting edges.

13. (currently amended) ~~Implant~~ The implant according to claim 1, ~~characterized in that the~~ wherein the screwing means has a spherical threading of constant pitch.

14-17. (cancelled)

18. (new) An acetabular implant, comprising:
a screw cup configured to receive an articular insert;

threads at a tropical/equatorial zone of the cup, said threads being intended to be introduced into bone material of the acetabulum during a screwing action; and

a coating carried by the cup, said coating facilitating osteointegration, or a selective calcium hydroxyapatite coating,

wherein the coating is thick on convex portions of an outer surface of the cup, including in zones or troughs or recesses of the threads that are left free, and the coating has a lesser thickness, or is even absent, on screw reliefs or the threads.

19. (new) The implant according to claim 1, wherein the coating is a selective calcium hydroxyapatite coating.

20. (new) The implant according to claim 18, wherein a thickness of the thick coating is from 100 to 200 micrometres.

21. (new) The implant according to claim 20, wherein the coating thickness is of an order of 150 ± 35 micrometres.

22. (new) The implant according to claim 18, wherein the screw reliefs have a coating of an order of 50 ± 30 micrometres.

23. (new) The implant according to claim 18, wherein the screw reliefs do not have any coating and have a rough surface.

24. (new) The implant according to claim 18, wherein the threads are is arranged in order to traumatize as little as possible the acetabular bone site, in which the threads are introduced, and in order to have a maximum convex surface-area, by having troughs between sides of threads in order to facilitate osteointegration by contact osteogenesis and remodelling under stress, the screw reliefs being arranged in order to apply a self-tapping cutting effect during the screwing action and an effect involving compression of sponge-like bone.